

Abstract Submitted
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J/ ψ Suppression: A Signature for Deconfinement of Quarks XIAOXU LU, Stony Brook University, Stony Brook, NY —
At very high temperature and densities, hadronic matter is expected to undergo a phase transition or crossover to a deconfined quark-gluon plasma state. In high energy nuclear collisions, there is a decreased population of heavy quarkonium relative to that which would be formed if a region of deconfinement had not been present. This as applied in to the charm sector is known as J/ ψ suppression. We will talk about the in-medium behavior of the J/ ψ like heavy quark bound states and the essential features of proposed effects on J/ ψ . Combined with the recent experimental results, we will discuss the possible mechanism for this anomalous J/ ψ suppression.

References:

1. Helmut Satz, arXiv:hep-ph/0512217
2. F. Karsch, D. Kharzeev and H. Satz, arXiv:hep-ph/0512239
3. H. Pereira Da Costa, etc. arXiv:nucl-ex/0510051

Prefer Oral Session
 Prefer Poster Session

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